

Amendment of the Specification:

Please replace paragraph on page 19, starting at line 7, with the following paragraph.

These above conditions, including rapid ramp rates to the target heating temperature and heating and controlled supply of the gaseous reactants (e.g., O_2 and H_2O) and ~~removal~~ removal of the gaseous reaction products (e.g., HF), result in the rapid formation of Y123 and second phases. These reaction times result in the rapid nucleation and growth of the oxide superconductor through the intermediate film thickness, which favors the inclusion of small second phase particles (nanodots) within the Y123 grains. The reaction conditions which favor the rapid Y123 formation, reduce the likelihood of grain coarsening of the nanodots.